Chapter 15.04 SUBDIVISIONS

Section 15.04.600 Concrete bases.

All manholes bases shall be either precast or cast-in place. Precast manhole bases shall have pipe inverts and a neoprene boot with strap for each pipe connecting to the manhole and a minimum of six inches of compacted gravel base under the manhole.

Where sewer lines enter manholes, the invert channels shall be smooth and semicircular in cross section, conforming to the details shown on the drawings. Changes of direction of flows within the manholes shall be made with a smooth curve with as long a radius as possible. The floor of the manhole outside the channels shall be smooth and slope toward the channel at not less than one-half inch per foot.

The connecting boots shall be made of neoprene compound meeting ASTM C-443 specifications. The boot shall have a wall thickness of three-eighths inch. The boot shall either be “cast-in-place” in the precast base or attached to the precast base by means of an internal expanding band. When the boot is attached to the precast base, a watertight seal between the boot and the precast base must be accomplished.

An external band shall be supplied and used to clamp and seal the boot to the pipe. The band shall be made of 300 series nonmagnetic corrosion-resistant steel.

In the case of manholes used in storm sewer applications, the base can be constructed with a concrete pipe stubout (offered by some pipe companies) or knockouts, in which the outlet and inlet culverts can be installed. In the event a base with knockouts is used, a concrete collar shall be poured around the connection to insure a monogeneous seal between the culvert and base.

Concrete for manhole bases shall comply with the requirements of Article M of this chapter. (Ord. 5-1988 § 1 (part): Development Code 4-4-2)